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In the claims:

1. (Original) A method of maintaining an initial bias of an x-ray detector comprising:

setting the initial bias of the x-ray detector;

altering an operating state of a readout circuit; and

adjusting a photodiode common contact voltage potential by a data line drift amount to approximately maintain the initial bias.

2. (Original) A method as in claim 1 further comprising maintaining scan circuitry in an active state.

3. (Original) A method as in claim 1 wherein adjusting a photodiode common contact voltage potential is performed by adjusting said photodiode common contact voltage potential by an amount approximately equal to an average change in a plurality of detector data line voltage potentials.

4. (Original) A method as in claim 1 further comprising:

determining whether conditions for powering down said readout circuit have been satisfied;

powering OFF said readout circuit and adjusting said common contact voltage potential in response to said determination; and

clamping data line voltage potential.

5. (Original) A method as in claim 1 further comprising:

powering ON said readout circuit; and

adjusting said photodiode common contact voltage potential to an initial common contact voltage potential.

6. (Original) A method as in claim 1 wherein adjusting said photodiode common contact voltage is performed when a power state of said readout circuit is altered.

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7. (Original) A method as in claim 1 further comprising:
measuring an error signal; and
readjusting said common contact voltage potential when said error signal is above a predetermined level.

8. (Original) A method as in claim 1 of determining data line drift within an x-ray system comprising:

establishing initial bias conditions;

scrubbing at least one detector until said at least one detector reaches equilibrium;

altering operating state of at least one readout circuit without altering a common contact potential; and

measuring data line drift.

9. (Original) A method as in claim 8 further comprising determining an average error signal for a plurality of data lines.

10. (Original) A method as in claim 8 wherein establishing initial bias conditions, scrubbing at least one detector, and altering operating state is performed via a controller.

11. (Currently Amended) An x-ray imaging system comprising:

a detector having a plurality of pixels comprising;

at least one data line; and

a common contact at a common contact voltage potential;

a readout circuit electrically coupled to said at least one data line and having a plurality of power states; and

a controller electrically coupled to said readout circuit, detecting a change in ~~operating state of said readout circuit~~ bias between said at least one data line and said common contact, and adjusting active voltage potential of said common

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contact to an active non-zero voltage potential in response to said bias change in operating state.

12. (Currently Amended) ~~A system as in claim 11~~ An x-ray imaging system comprising:

a detector having a plurality of pixels comprising;

at least one data line; and

a common contact at a common contact voltage potential;

a readout circuit electrically coupled to said at least one data line and having a plurality of power states; and

a controller electrically coupled to said readout circuit, detecting a change in operating state of said readout circuit, and adjusting voltage potential of said common contact in response to said change in operating state;

wherein said controller adjusts voltage potential of said common contact in response to change in power state of said readout circuit.

13. (Original) A system as in claim 11 wherein said controller in adjusting voltage potential of said common contact maintains a scanning circuit in an active state.

14. (Original) A system as in claim 11 wherein said readout circuit comprises a plurality of integrators determining charge across a plurality of photodiodes.

15. (Original) A system as in claim 14 wherein said controller adjusts voltage potential of said common contact in response to said charge.

16. (Currently Amended) ~~A system as in claim 11~~ An x-ray imaging system comprising:

a detector having a plurality of pixels comprising;

at least one data line; and

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a common contact at a common contact voltage potential;

a readout circuit electrically coupled to said at least one data line and having a plurality of power states; and

a controller electrically coupled to said readout circuit, detecting a change in operating state of said readout circuit, and adjusting voltage potential of said common contact in response to said change in operating state;

wherein said readout circuit comprises:

at least one integrator electrically coupled to said plurality of pixels;

and

a protection element electrically coupled to said integrator and conducting when said integrator is in a powered OFF state.

17. (Currently Amended) A system as in claim ~~[[12]]~~16 wherein said protection element clamps voltage potential of at least one data line.

18. (Currently Amended) A system as in claim ~~[[12]]~~16 wherein said controller detects said change and adjusts common contact voltage potential in response to power state of said integrator.

19. (Currently Amended) ~~A system as in claim 11~~ An x-ray imaging system comprising:

a detector having a plurality of pixels comprising;

at least one data line; and

a common contact at a common contact voltage potential;

a readout circuit electrically coupled to said at least one data line and having a plurality of power states; and

a controller electrically coupled to said readout circuit, detecting a change in operating state of said readout circuit, and adjusting voltage potential of said common contact in response to said change in operating state;

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wherein said controller continuously adjusts common contact voltage potential to maintain an initial detector bias.

20. (Original) A system as in claim 11 wherein said controller enables x-ray image acquisition when voltage potential magnitude of an error signal is below a predetermined level.